

Title (en)

BACKLIGHT UNITS COMPRISING A THIN LIGHT GUIDE PLATE AND A LIGHT COUPLING UNIT

Title (de)

RÜCKBELEUCHTUNGSEINHEITEN MIT EINER DÜNNEN LICHTLEITERPLATTE UND EINER LICHTKOPPLUNGSEINHEIT

Title (fr)

UNITÉS DE RÉTROÉCLAIRAGE COMPRENANT UNE PLAQUE DE GUIDAGE DE LUMIÈRE MINCE ET UNE UNITÉ DE COUPLAGE DE LUMIÈRE

Publication

EP 3440404 A1 20190213 (EN)

Application

EP 17718243 A 20170404

Priority

- US 201662320052 P 20160408
- US 2017025864 W 20170404

Abstract (en)

[origin: WO2017176691A1] Disclosed herein are backlight units comprising a light guide plate (210), a light coupling unit (220) in contact with the light guide plate, and a light source (230) optically coupled to the first and second light incident edge surfaces. The backlight units may also comprise light recycling cavities by forming a reflector (240) on the edge surface (224) of the coupling unit opposing the incidence surface (221). Electronic, display, and lighting devices comprising such BLUs are further disclosed herein.

IPC 8 full level

F21V 8/00 (2006.01)

CPC (source: EP KR US)

G02B 6/002 (2013.01 - US); **G02B 6/0028** (2013.01 - EP KR US); **G02B 6/0031** (2013.01 - EP KR US); **G02B 6/0068** (2013.01 - US)

Citation (search report)

See references of WO 2017176691A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2017176691 A1 20171012; CN 109073199 A 20181221; EP 3440404 A1 20190213; JP 2019514167 A 20190530; KR 20180126597 A 20181127; TW 201738629 A 20171101; US 2019107662 A1 20190411

DOCDB simple family (application)

US 2017025864 W 20170404; CN 201780022253 A 20170404; EP 17718243 A 20170404; JP 2018552233 A 20170404; KR 20187032476 A 20170404; TW 106111489 A 20170406; US 201716092116 A 20170404